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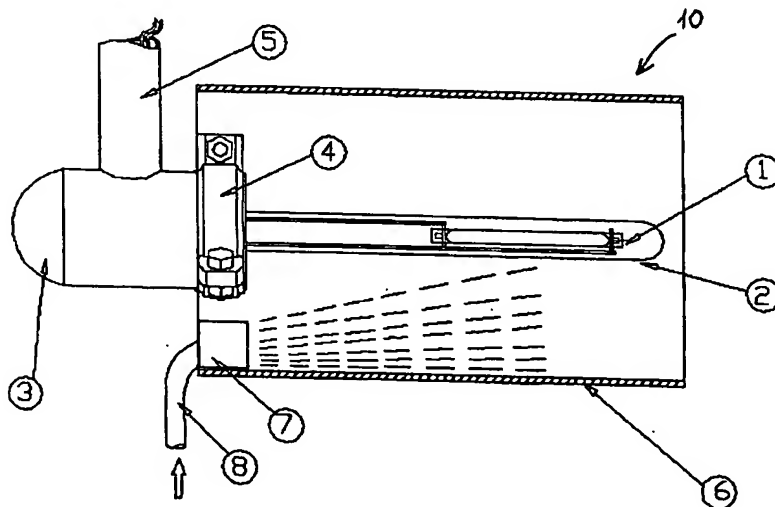
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(54) Title: A METHOD AND AN APPARATUS FOR PURIFYING WATER BY PHOTO-CHEMICAL OXIDATION



(57) Abstract: The present invention concerns an apparatus for purifying contaminated water by photochemical oxidation, wherein at least a sub-flow of water is directed through a flow channel wherein the water is irradiated with UV electromagnetic radiation from at least one UV lamp assembly, wherein said at least one UV lamp assembly includes a high-pressure UV halogen lamp which is mounted generally parallel with the flow direction in the channel. Moreover, a method is also provided, whereby the water flow is radiated with UV radiation by at least on UV halogen high-pressure lamp assembly, which is energy intensive wave lengths in the range of 150 nm to 260 nm, preferably in the range of 160 nm to 220 nm, and most preferably in the range of 192 nm to 205 nm.

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INTERNATIONAL SEARCH REPORT

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PCT/DK 03/00795

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C02F1/32 C02F1/72

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C02F H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 348 665 A (SCHULTE PETER ET AL) 20 September 1994 (1994-09-20) column 2, line 36 - line 44 column 3, line 35 - line 49 column 4, line 20 - line 27 column 5, line 20 - line 26; claims 6,7; figures 1,3	1,5-11, 15-19
Y	US 6 447 721 B1 (GARRETT KURT ANTHONY ET AL) 10 September 2002 (2002-09-10) column 1, line 20 - line 65 column 4, line 48 - line 57 column 11, line 60 - column 12, line 9 column 12, line 57 - line 59; claim 6 --- -/--	1,5-11, 15-19



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	<p>WO 03 022749 A (RIED ACHIM ;WEDECO AG WATER TECHNOLOGY (DE)) 20 March 2003 (2003-03-20) page 6, line 20 - line 28 page 8, line 18 - line 33 abstract</p>	1-19
A	<p>--- US 5 324 438 A (MARTIN PAUL ET AL) 28 June 1994 (1994-06-28) column 3, line 17 - line 19; figure 1; example 1 abstract</p> <p>-----</p>	1-19

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